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Ephemeris for Physical Observations

Greenwich Noon.	Angle of Position of ♃'s Axis. P	Latitude of Earth above ♃'s Equator B	Latitude of Sun above ♃'s Equator *B*	Annual Parallax. A−L.	L−O.	Longitude of ♃'s Central Meridian. (878°·25) I	Longitude of ♃'s Central Meridian. (870°·27) II	Corr. for Phase.
1886 Dec. 9	22°·064	−2°·862	−2°·796	−7°·799	73°·435	34°·15	251°·43	+0°·264
14	21·877	2·893	2·804	8·282	74·297	104·86	282·24	·298
19	21·694	2·923	2·813	8·726	75·119	175·62	313·10	·331
24	21·516	2·952	2·821	9·127	75·898	246·45	344·02	·362
29	21·345	2·980	2·829	9·481	76·630	317·34	15·00	·390
1887 Jan. 3	21·182	−3·008	−2·836	−9·784	77·311	28·29	46·05	+0·415
8	21·030	3·036	2·844	10·032	77·937	99·30	77·16	·437
13	20·890	3·063	2·852	10·222	78·505	170·38	108·34	·444
18	20·763	3·089	2·859	10·351	79·012	241·53	139·59	·465
23	20·651	3·114	2·866	10·414	79·454	312 75	170·90	·471
28	20·555	3·139	2·874	10·409	79·827	24·04	202·28	·470
Feb. 2	20·476	3·162	−2·881	−10·332	80·128	95·40	233·73	+0·463
7	20·416	3·185	2·888	10·181	80·356	166·83	265·26	·450
12	20·376	3·206	2·894	9·954	80·508	238·32	296·85	·430
17	20·355	3·225	2·901	9·649	80·582	309·88	328·51	·404
22	20·355	3·242	2·908	9·265	80·577	21·51	0·23	·372
27	20·375	3·258	2·914	8·802	80·492	93·20	32·02	·336
Mar. 4	20·416	−3·271	−2·920	−8·261	80·329	164·95	63·86	+0·296
9	20·476	3·282	2·927	7·644	80·092	236·75	95·76	·254
14	20·554	3·290	2·933	6·954	79·782	308·60	127·71	·210
19	20·650	3·295	2·939	6·196	79·403	20·49	159·70	·167
24	20·761	3·297	2·944	5·375	78·961	92·41	191·72	·126
29	20·884	3·296	2·950	4·497	78·462	164·35	223·76	·088
Apr. 3	21·017	−3·292	−2·956	−3·571	77·915	236·31	255·82	+0·056
8	21·158	3·285	2·961	2 607	77·330	308·28	287·88	·030
13	21·303	3·274	2·966	1·614	76·716	20·23	319·93	·011
18	21·451	3·260	2·971	−0·602	76·084	92·16	351·97	+0·002
23	21·598	3·243	2·976	+0·418	75·444	164·07	23·97	−0·001
28	21·741	3·223	2·981	1·434	74·808	235·93	55·93	·009
May 3	21·879	−3·201	−2·986	+2·434	74·188	307·74	87·84	−0·026
8	22·009	3·177	2·991	3·408	73·594	19·48	119 68	·051
13	22·129	3·151	2·995	4·347	73·035	91·15	151·46	·082
18	22·238	3·124	3·000	5·242	72·520	162·74	183·16	·119
23	22·335	3·096	3·004	6·085	72·058	234·25	214·77	·161

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of Jupiter 1887. By A. Marth.

Greenwich Noon		Diameter Equat.	Polar.	Difference of limbs in A. R.	in Decl.	Defect of illumination. Equat. preceding limb	in A. R.	in Decl. north *l*.	*d*	*w*
1886		″	″	s	″	″	s	″	°	°
Dec.	9	32·32	30·25	2·168	30·56	0·15	0·009	0·02	7·79	269·69
	14	32·66	30·58	2·193	30·88	·17	·010	·02	8·27	269·57
	19	33·02	30·93	2·220	31·22	·19	·011	·03	8·71	269·46
	24	33·42	31·30	2·249	31·59	·21	·013	·03	9·11	269·37
	29	33·84	31·69	2·280	31·98	·23	·014	·03	9·47	269·28
1887 Jan.	3	34·29	32·11	2·312	32·40	0·25	0·015	0·03	9·77	269·19
	8	34·76	32·55	2·346	32·84	·27	·016	·03	10·02	269·11
	13	35·26	33·01	2·381	33·31	·28	·017	·03	10·21	269·02
	18	35·77	33·50	2·417	33·79	·29	·018	·03	10·34	268·93
	23	36·31	34·01	2·455	34·30	·30	·018	·04	10·40	268·84
	28	36·87	34·53	2·494	34·82	·30	·018	·04	10·40	268·74
Feb.	2	37·44	35·06	2·533	35·36	0·30	0·018	0·03	10·32	268·63
	7	38·02	35·60	2·573	35·91	·30	·018	·03	10·17	268·51
	12	38·60	36·15	2·614	36·46	·29	·018	·03	9·94	268·37
	17	39·19	36·71	2·654	37·02	·28	·017	·03	9·64	268·23
	22	39·78	37·26	2·693	37·57	·26	·016	·03	9·26	268·06
	27	40·36	37·80	2·732	38·12	·24	·015	·02	8·80	267·86
Mar.	4	40·92	38·33	2·769	38·65	0·21	0·014	0·02	8·26	267·64
	9	41·46	38·83	2·804	39·16	·18	·012	·02	7·64	267·38
	14	41·97	39·30	2·837	39·64	·15	·010	·02	6·95	267·06
	19	42·44	39·74	2·867	40·09	·12	·008	·01	6·20	266·67
	24	42·86	40·14	2·894	40·49	·09	·006	·01	5·38	266·14
	29	43·23	40·49	2·917	40·84	·07	·004	·01	4·51	265·43
Apr.	3	43·54	40·78	2·935	41·14	0·04	0·003	0·00	3·60	264·35
	8	43·78	41·01	2·949	41·38	·02	·001	—	2·63	262·5
	13	43·96	41·17	2·959	41·55	·01	·001	—	1·64	258·7
	18	44·06	41·26	2·964	41·65	on following		on south	0·68	242·8
	23	44·09	41·29	2·963	41·68	limb		limb	0·52	123·4
	28	44·04	41·24	2·957	41·64	0·01	0·000	0·00	1·47	102·7
May	3	43·91	41·12	2·946	41·53	·02	·001	·00	2·44	95·3
	8	43·72	40·94	2·931	41·35	·04	·002	·01	3·41	93·24
	13	43·46	40·70	2·911	41·10	·06	·004	·01	4·34	92·07
	18	43·14	40·40	2·888	40·80	·09	·005	·02	5·24	91·30
	23	42·76	40·05	2·862	40·45	·12	·007	·02	6·08	90·76

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Greenwich Noon		Angle of Position of ♃'s Axis.	Latitude of Earth above ♃'s Equator.	Latitude of Sun above ♃'s Equator.	Annual Parallax.		Longitude of ♃'s Central Meridian. (878°·25)	Longitude of ♃'s Central Meridian. (870°·27)	Corr. for Phase.
		P	B	*B*	Λ−L.	L−O.	I	II	
1887 May	28	22°·418	3°·068	3°·008	6°·868	71°·655	305°·67	246°·29	°·205
June	2	22·487	−3·040	−3·012	+7·586	71·317	17 00	277·72	−0·250
	7	32·542	3·013	3·016	8·236	71·047	88·24	309·06	·294
	12	22·582	2·987	3·020	8·814	70·849	159·38	340·30	·337
	17	22·608	2·961	3·023	9·318	70·726	230·42	11·45	·377
	22	22·619	2·937	3·027	9·747	70·678	301·37	42·50	·412
	27	22·615	2·915	3·030	10·101	70·705	12·24	73·47	·443
July	2	22·567	−2·895	−3·033	+10·380	70·806	83·02	104·35	−0·467
	7	22·564	2·876	3·036	10·586	70·981	153·71	135·15	·486
	12	22·516	2·859	3·039	10·721	71·227	224·33	165·87	·498
	17	22·454	2·845	3·042	10·787	71·542	294·88	196 52	·505
	22	22·378	2 833	3·045	10·786	71·925	5·36	227·10	·505
	27	22·288	2·823	3·047	10·720	72·372	75·77	257·62	·498
Aug.	1	22·183	−2·815	−3·050	+10·594	72·880	146·13	288·08	−0·486
	6	22·064	2·809	3·052	10·411	73·445	216·43	318·49	·470
	11	21·931	2·804	3·054	10·173	74·065	286·69	348·85	·449
	16	21·785	2·801	3·056	9·882	74 737	356 90	19·17	·424
	21	21·624	2·800	3·058	9·543	75·458	67·08	49·45	·395
	26	21·450	2·800	3·060	9·159	76·225	137·23	79·70	·364
	31	21·261	2·801	3·061	8·732	77·034	207·35	109·92	·331
Sept.	5	21·059	−2·805	−3·063	+8·266	77·883	277·44	140·11	−0·297

The angle Λ−L is the difference of the Jovicentric longitudes of the Sun and Earth, reckoned in the plane of *Jupiter's* equator L−O+180° the Jovicentric longitude of the Earth reckoned from O, the point of *Jupiter's* vernal equinox or the point of the ascending node of the planet's orbit on its equator. Two values of the "longitude of ♃'s central meridian" are given for each date, the first, computed with the daily rate of rotation 878°·25, being intended for comparing the observations of the white spots in the neighbourhood of the planet's equator; the second, computed with the rate 870°·27, for the observations of the remnant of the great reddish spot in the planet's southern hemisphere. The apparent irregularities in the motion of the white equatorial spots leave it doubtful whether the adopted slackened rate of rotation will be approximately correct during the approaching apparition of *Jupiter.* But observers who have instrumental and climatic opportunities for observing the spots assiduously can, after the first observations, easily make allowance for any changes of the positions of the spots in reference to the system I. of longitudes. If the slackening of the motion of the great

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Greenwich Noon	Diameter Equat.	Polar.	Difference of limbs in A. R.	in Decl.	Defect of illumination. Equat.	in A. R. following limb	in Decl. south *l*.	*d*	*w*
1887	"	"	s	"	"	s	"	°	°
May 28	42·33	39·65	2·832	40·05	0·15	0·009	0·02	6·86	90·34
June 2	41·87	39·21	2·800	39·61	0·18	0·011	0·03	7·57	90·02
7	41·37	38·74	2·766	39·14	·21	·012	·03	8·22	89·75
12	40·84	38·25	2·731	38·64	·24	·014	·04	8·80	89·52
17	40·30	37·74	2·694	38·13	·27	·016	·04	9·30	89·33
22	39·74	37·22	2·657	37·60	·29	·017	·04	9·73	89·17
27	39·18	36·69	2·619	37·07	·30	·018	·04	10·09	89·02
July 2	38·61	36·16	2·582	36·53	0·31	0·018	0·04	10.37	88·89
7	38·05	35·63	2·545	36·00	·32	·019	·05	10·57	88·78
12	37·49	35·11	2·509	35·47	·33	·019	·05	10·71	88·68
17	36·95	34·60	2·473	34·95	·33	·019	·04	10·77	88·59
22	36·42	34·10	2·439	34·45	·32	·019	·04	10·77	88·50
27	35·91	33·62	2·406	33·96	·31	·019	·04	10·71	88·43
Aug. 1	35·41	33·16	2·374	33·49	0·30	0·018	0·04	10·58	88·36
6	34·94	32·72	2·344	33·04	·29	·017	·04	10·40	88·29
11	34·48	32·29	2·316	32·61	·27	·016	·03	10·16	88·22
16	34·05	31·89	2·289	32·20	·25	·015	·03	9·87	88·15
21	33·65	31·51	2·264	31·81	·23	·014	·03	9·53	88·08
26	33·26	31·15	2·241	31·44	·21	·013	·03	9·15	88·01
31	32·91	30·81	2·219	31·10	·19	·012	·02	9·72	87·94
Sept. 5	32·57	30·50	2·199	30·78	0·17	0·010	0·02	9·26	87·87

reddish spot should be maintained, its place will be found near the zero meridian of the system II. of longitudes. The periods of rotation corresponding to the adopted rates are

			h	m	s
I. daily rate	878°·25	period	9	50	15·88
II.	870°·27		9	55	40·63

The differences of successive values in the two columns for "Longitude, &c.," amount for the intervals of five days to 12 rotations in addition to the differences directly deduced, so that, for instance, the differences of the values for Dec. 14 and Dec. 9 are 4390°·71 and 4350°·81. The addition of the correction for phase "to the longitude of ♃'s central meridian" gives the longitude of the meridian which bisects the illuminated disc. A list of Greenwich times when their longitude is 0° will be found further on.

The diameters of the disc, etc., depend on the same assumed values as in the ephemeris for the preceding apparition. The formulæ employed may be found in vol. xlv. p. 508.

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The inclinations γ and the ascending nodes Γ of the orbits of the four satellites of *Jupiter* in reference to the plane of the planet's equator are the following, the longitudes of the nodes being reckoned from O, the point of the ascending node of *Jupiter's* orbit on the equator:

		Sat. I.		Sat. II.		Sat. III.		Sat. IV.	
1886.		γ_1	Γ_1	γ_2	Γ_2	γ_3	Γ_3	γ_4	Γ_4
Nov.	9	0°·0118	295°·6	0°·4923	294°·06	0°·1476	250°·93	0°·3206	330°·40
1887. Jan.	8	·0117	294·3	·4925	292·17	·1466	250·67	·3206	330·51
Mar.	9	·0117	292·9	·4927	290·28	·1455	250·40	·3205	330·62
May	8	·0116	291·5	·4928	288·39	·1444	250·11	·3203	330·74
July	7	·0116	290·1	·4928	286·50	·1433	249·81	·3200	330·86
Sept.	5	·0115	288·6	·4928	284·60	·1422	249·49	·3196	330·98
Nov.	4	0·0114	287·0	0·4928	282·69	0·1411	249·15	0·3191	331·09

Has the eclipse of Sat. IV. on May 17, 1886, which was not given by the Tables, but the probable occurrence of which was mentioned in vol. xlv. p. 509, not been observed anywhere?

The following is a list of Greenwich mean times, when the zero meridian in the assumed two systems of longitudes will pass the middle of the illuminated disc. To save printing, the time of only one passage is given for each day, and the others must be found by interpolation, or, if greater accuracy is not required, by adding or subtracting 9^h 50^m in the first system, and 9^h 56^m in the second.

1886		I (878°·25) h m	II (870°·27) h m	1886		I (878°·25) h m	II (870°·27) h m
Dec.	9	18 44·2	12 55·0	Dec.	25	18 26·8	16 8·8
	10	14 24·9	18 42·2		26	14 7·5	12 0·2
	11	19 55·9	14 33·7		27	19 38·4	17 47·4
	12	15 36·6	20 21·0		28	15 19·0	13 38·8
	13	21 7·6	16 12·5		29	20 49·9	19 26·0
	14	16 48·2	12 3·9		30	16 30·5	15 17·4
	15	12 28·9	17 51·2		31	12 11·1	21 4·5
	16	17 59·8	13 42·6	1887			
	17	13 40·5	19 29·9	Jan.	1	17 42·0	16 56·0
	18	19 11·5	15 21·3		2	13 22·6	12 47·4
	19	14 52·1	21 8·5		3	18 53·5	18 34·5
	20	20 23·1	17 0·0		4	14 34·1	14 26·0
	21	16 3·7	12 51·5		5	20 5·0	20 13·1
	22	21 34·7	18 38·7		6	15 45·6	16 4·5
	23	17 15·3	14 30·1		7	11 26·2	11 55·9
	24	12 55·9	20 17·3		8	16 57·0	17 43·0

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1887		I (878°·25)		II (870°·27)	
		h	m	h	m
Jan.	9	12	37·6	13	34·4
	10	18	8·5	19	21·5
	11	13	49·0	15	12·9
	12	19	19·9	11	4·3
	13	15	0·4	16	51·4
	14	10	41·0	12	42·8
	15	16	11·8	18	29·8
	16	$10^{h}\cdot5$ conj. of ♃ with ∗ 8^{m} W.B. 14, III ∗ 0′2 north of limb.			
	—	11	52·4	14	21·2
	17	17	23·2	10	12·6
	18	13	3·7	15	59·6
	19	18	34·6	11	51·0
	20	14	15·1	17	38·0
	21	19	45·9	13	29·4
	22	15	26·4	19	16·4
	23	11	7·0	15	7·8
	24	16	37·7	10	59·1
	25	12	18·3	16	46·2
	26	17	49·0	12	37·5
	27	13	29·6	18	24·5
	28	19	0·3	14	15·9
	29	14	40·8	20	2·9
	30	20	11·6	15	54·2
	31	15	52·1	11	45·5
Feb.	1	11	32·6	17	32·5
	2	17	3·3	13	23·8
	3	12	43·8	19	10·8
	4	18	14·5	15	2·1
	5	13	55·0	10	53·4
	6	19	25·8	16	40·4
	7	15	6·2	12	31·7
	8	10	46·7	18	18·6
	9	16	17·4	14	9·9
	10	11	57·9	10	1·2
	11	17	28·6	15	48·1
	12	13	9·0	11	39·4
Feb.	13	18	39·7	17	26·3
	14	14	20·2	13	17·6
	15	10	0·6	19	4·5
	16	15	31·3	14	55·8
	17	11	11·7	10	47·1
	18	16	42·4	16	34·0
	19	12	22·8	12	25·4
	20	17	53·5	18	12·1
	21	13	33·9	14	3·4
	22	19	4·6	19	50·3
	23	14	45·0	15	41·5
	24	10	25·4	11	32·7
	25	15	56·0	17	19·6
	26	11	36·5	13	10·8
	27	17	7·1	18	57·7
	28	12	47·5	14	48·9
March	1	18	18·1	10	40·2
	2	13	58·5	16	27·0
	3	9	38·9	12	18·2
	4	15	9·5	18	5·1
	5	10	49·9	13	56·3
	6	16	20·5	9	47·5
	7	12	0·9	15	34·3
	8	17	31·5	11	25·5
	9	13	11·8	17	12·3
	10	8	52·2	13	3·6
	11	14	22·8	8	54·8
	12	10	3·2	14	41·6
	13	15	33·7	10	32·8
	14	11	14·1	16	19·6
	15	16	44·7	12	10·8
	16	12	25·0	8	1·9
	17	8	5·4	13	48·7
	18	13	36·0	9	39·9
	19	9	16·3	15	26·7
	20	14	46·9	11	17·9
	21	10	27·2	17	4·7
	22	15	57·8	12	55·8

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1887		I (878°·25) h	m	II (870°·27) h	m	1887		I (878°·25) h	m	II (870°·27) h	m
March	23	11	38·1	8	47·0	April	30	14	24·6	10	1·1
	24	17	8·7	14	33·8	May	1	10	4·9	5	52·3
	25	12	49·0	10	25·0		2	5	45·3	11	39·1
	26	8	29·4	16	11·7		3	11	15·9	7	30·3
	27	13	59·9	12	2·9		4	6	56·3	13	17·2
	28	9	40·2	7	54·1		5	12	26·9	9	8·4
	29	15	10·8	13	40·8		6	8	7·3	14	55·2
	30	10	51·1	9	32·0		7	13	37·9	10	46·5
	31	16	21·6	15	18·8		8	9	18·3	6	37·7
April	1	12	2·0	11	9·9		9	14	49·0	12	24·5
	2	7	42·3	7	1·1		10	10	29·4	8	15·8
	3	13	12·8	12	47·9		11	6	9·8	14	2·7
	4	8	53·2	8	39·0		12	11	40·5	9	53·9
	5	14	23·7	14	25·8		13	7	20·9	5	45·2
	6	10	4·0	10	16·9		14	12	51·6	11	32·1
	7	15	34·6	6	8·1		15	8	32·0	7	23·3
	8	11	14·9	11	54·8		16	14	2·7	13	10·2
	9	6	55·3	7	46·0		17	9	43·1	9	1·5
	10	12	25·8	13	32·8		18	5	23·6	14	48·4
	11	8	6·1	9	23·9		19	10	54·3	10	39·7
	12	13	36·6	15	10·7		20	6	34·8	6	31·0
	13	9	17·0	11	1·9		21	12	5·5	12	18·0
	14	14	47·5	6	53·0		22	7	46·0	8	9·3
	15	10	27·9	12	39·8		23	13	16·7	13	56·2
	16	6	8·2	8	30·9		24	8	57·2	9	47·5
	17	11	38·7	14	17·7		25	14	27·9	5	38·8
	18	7	19·1	10	8·9		26	10	8·4	11	25·8
	19	12	49·6	6	0·0		27	5	48·9	7	17·2
	20	8	30·0	11	46·8		28	11	19·7	13	4·2
	21	14	0·5	7	38·0		29	7	0·2	8	55·5
	22	9	40·8	13	24·7		30	12	30·9	14	42·5
	23	15	11·4	9	15·9		31	8	11·5	10	33·8
	24	10	51·7	15	2·7	June	1	13	42·3	6	25·2
	25	6	32·1	10	53·9		2	9	22·8	12	12·2
	26	12	2·7	6	45·1		3	5	3·3	8	3·6
	27	7	43·0	12	31·9		4	10	34·1	13	50·7
	28	13	13·6	8	23·1		5	6	14·7	9	42·0
	29	8	54·0	14	9·9		6	11	45·5	5	33·4

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		I (878°·25)		II (870°·27)	
1887		h	m	h	m
June	7	7	26·1	11	20·5
	8	12	56·9	7	11·9
	9	8	37·5	12	59·0
	10	14	8·4	8	50·3
	11	9	48·9	14	37·4
	12	5	29·5	10	28·9
	13	11	0·4	6	20·3
	14	6	41·0	12	7·4
	15	12	11·9	7	58·8
	16	7	52·5	13	46·0
	17	13	23·4	9	37·4
	18	9	4·0	5	28·8
	19	14	34·9	11	16·0
	20	10	15·6	7	7·4
	21	5	56·2	12	54·6
	22	11	27·1	8	46·1
	23	7	7·8	14	33·3
	24	12	38·7	10	24·7
	25	8	19·4	6	16·2
	26	13	50·3	12	3·4
	27	9	31·0	7	54·9
	28	5	11·6	13	42·1
	29	10	42·6	9	33·6
	30	6	23·3	5	25·1
July	1	11	54·3	11	12·3
	2	7	35·0	7	3·8
	3	13	6·0	12	51·1
	4	8	46·7	8	42·6
	5	14	17·7	14	29·9
	6	9	58·4	10	21·4
	7	5	39·1	6	12·9
	8	11	10·1	12	0·2
	9	6	50·8	7	51·7
	10	12	21·9	13	39·0
	11	8	2·6	9	30·5
	12	13	33·6	5	22·1
	13	9	14·4	11	9·4
	14	4	55·1	7	0·9
1887 July	15	10	26·2	12	48·3
	16	6	6·9	8	39·8
	17	11	38·0	4	31·4
	18	7	18·7	10	18·7
	19	12	49·8	6	10·3
	20	8	30·6	11	57·6
	21	4	11·3	7	49·2
	22	9	42·4	13	36·6
	23	5	23·2	9	28·1
	24	10	54·3	5	19·7
	25	6	35·0	11	7·1
	26	12	6·2	6	58·7
	27	7	46·9	12	46·0
	28	13	18·1	8	37·6
	29	8	58·8	4	29·2
	30	4	39·6	10	16·6
	31	10	10·8	6	8·2
Aug.	1	5	51·5	11	55·6
	2	11	22·7	7	47·2
	3	7	3·5	3	38·8
	4	12	34·7	9	26·2
	5	8	15·4	5	17·9
	6	3	56·2	11	5·3
	7	9	27·4	6	56·9
	8	5	8·2	12	44·3
	9	10	39·4	8	35·9
	10	6	20·2	4	27·6
	11	11	51·4	10	15·0
	12	7	32·2	6	6·4
	13	13	3·4	11	54·1
	14	8	44·2	7	45·7
	15	4	25·0	3	37·3
	16	9	56·2	9	24·3
	17	5	37·0	5	16·4
	18	11	8·2	11	3·9
	19	6	49·0	6	55·5
	20	12	20·2	12	43·0
	21	8	1·0	8	34·6

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1887	I (878°·25) h m	II (870°·27) h m	1887	I (878°·25). h m	II (870°·27) h m
Aug. 22	3 41·9	4 26·3	Aug. 29	12 49·3	5 15·3
23	9 13·1	10 13·7	30	8 30·1	11 2·8
24	4 53·9	6 5·4	31	4 10·9	6 54·4
25	10 25·1	11 52·9	Sept. 1	9 42·1	12 41·9
26	6 6·0	7 44·5	2	5 23·0	8 33·6
27	11 37·2	3 36·2	3	10 54·2	4 25·3
28	7 18·0	9 23·7	4	6 35·1	10 12·7